Product data sheet
Characteristics

ABE7R08S210
sub-base - soldered electromechanical relays
ABE7 - 8 channels - relay 10 mm



Main

Range of product	Modicon ABE7
Product or component type	Electromechanical output relay sub-base
[Us] rated supply voltage	24 V DC for PLC end
Number of channels	8
Number of terminal per channel	2

Complementary

Terminal block type	Removable
Polarity distribution	Volt-free
Fixing mode	By clips (35 mm symmetrical DIN rail) By screws (solid plate with fixing kit)
Maximum current per output common	10 A
Current per channel	5 A for preactuator end
Minimum switching current	10 MA at >= 5 V
Drop-out voltage	2.4 V at 20 °C (PLC end)
Switching frequency	<= 0.5 Hz <= 10 Hz
Threshold tripping voltage	19.7 V at 40 °C
Drop-out current	1 MA at 20 °C
Maximum power dissipation per channel in W	0.36 W (PLC end)
Contacts type and composition	1 NO for preactuator end
Maximum switching voltage	250 V AC 50/60 Hz conforming to IEC 60947-5-1 30 V DC conforming to IEC 60947-5-1
Electrical durability	500000 Cycles, maximum switching current: 600 mA at 24 V DC-13 10 ms (preactuator end) 500000 Cycles, maximum switching current: 1500 mA at 230 V AC-12 (preactuator end) 500000 Cycles, maximum switching current: 1500 mA at 24 V DC-12 (preactuator end) 500000 Cycles, maximum switching current: 900 mA at 230 V AC-15 (preactuator end)
Electrical reliability	1e-008
Operating time	<= 10 ms coil energisation and NO closing <= 5 ms coil de-energisation and NO opening
Contact bounce time	<= 5 ms 1 NO
Operating rate in Hz	10 Hz no load 0.5 Hz at Ie
Mechanical durability	20000000 Cycles
[Uimp] rated impulse withstand voltage	2.5 KV conforming to IEC 60947-1
[Ui] rated insulation voltage	2000 V
Installation category	II conforming to IEC 60664-1
Tightening torque	0.6 N.M with flat Ø 3.5 mm screwdriver

Width	125 Mm
Net weight	0.448 Kg

Environment

Max immunity to microbreaks	5 Ms
Dielectric strength	2000 V conforming to IEC 60947-1
Product certifications	UL[RETURN]DNV[RETURN]CSA[RETURN]GL[RETURN]EAC
IP degree of protection	IP2X conforming to IEC 60529
Protective treatment	TC
Resistance to incandescent wire	750 °C, extinction time <30 s conforming to IEC 60695-2-11
Shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27
Resistance to radiated fields	10 V/M (26000000…1000000000 Hz) conforming to IEC 61000-4-3 level 3
Resistance to fast transients	2 KV level 3 conforming to IEC 61000-4-4
Ambient air temperature for operation	-5…60 °C conforming to IEC 61131-2
Ambient air temperature for storage	-40…80 °C conforming to IEC 61131-2
Pollution degree	2 conforming to IEC 60664-1

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.200 Cm
Package 1 Width	8.200 Cm
Package 1 Length	13.700 Cm
Package 1 Weight	351.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	9
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	3.572 Kg

Offer Sustainability

Recyclability potential, in %	6
Total lifecycle Carbon footprint	982 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	9.844205637405432
Carbon footprint of the manufacturing phase [A1 to A3]	10 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.052405091690763156
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.09293763248213918
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	971.7360356355297
Carbon footprint of the use phase [B2, B3, B4, B6]	972 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.7555961150322937
Carbon footprint of the end-of-life phase [C1 to C4]	0.8 kg CO2 eq.
Total lifecycle Carbon footprint	982
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	1bbe7d20-74c0-4e7e-b98b-d2946f4ab8b4
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which
End of life manual availability	End Of Life Information

Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised